SEQUENCE LISTING

D> SEIKAGAKU CORPORATION AMERSHAM BIOSCIENCES K.K. NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY Hisashi NARIMATSU Shigemi SUGIOKA Hideo MOCHIZUKI												
> Sulfotransferase, peptide thereof and DNA encoding the same												
> Q83405												
> PCT/JP03/02500 > 2003-03-04												
<150> JP 2002-57527 <151> 2002-03-04												
<150> JP 2002-245994 <151> 2002-08-26												
<160> 16												
<210> 1 <211> 1041 <212> DNA <213> Homo sapiens												
<220> <221> CDS <222> (1)(1041)												
<pre><400> 1 atg cta ttc aaa cag cag gcg tgg ctg aga cag aag ctc ctg gtg ctg Met Leu Phe Lys Gln Gln Ala Trp Leu Arg Gln Lys Leu Leu Val Leu 1 5 10 15</pre>												
gga agc ctt gcc gtt ggg agt ctc ctg tat cta gtc gcc aga gtt ggg 96 Gly Ser Leu Ala Val Gly Ser Leu Leu Tyr Leu Val Ala Arg Val Gly 20 25 30												
agc ttg gat agg cta caa ccc att tgc ccc att gaa ggt cga ctg ggt 144 Ser Leu Asp Arg Leu Gln Pro Ile Cys Pro Ile Glu Gly Arg Leu Gly 35 40 45	•											
gga gcc cgc act cag gct gaa ttc cca ctt cgc gcc ctg cag ttt aag 192 Gly Ala Arg Thr Gln Ala Glu Phe Pro Leu Arg Ala Leu Gln Phe Lys 50 55 60	•											
cgt ggc ctg ctg cac gag ttc cgg aag ggc aac gct tcc aag gag cag Arg Gly Leu Leu His Glu Phe Arg Lys Gly Asn Ala Ser Lys Glu Gln 65 70 75 80)											
gtt cgc ctc cat gac ctg gtc cag cag ctc ccc aag gcc att atc att Val Arg Leu His Asp Leu Val Gln Gln Leu Pro Lys Ala Ile Ile 85 90 95	;											
ggg gtg agg aaa gga ggc aca agg gcc ctg ctt gaa atg ctg aac cta 336	;											

Gly	Val	Arg	Lys 100	Gly	Gly	Thr	Arg	Ala 105	Leu	Leu	Glu	Met	Leu 110	Asn	Leu	
	ccg	_	_	_		_			_					_		384
	gag Glu 130															432
	tcc Ser			_					_	_	_		_			480
	aca Thr															528
	ttg Leu															576
	act Thr															624
_	ttt Phe 210		_	_	_		_									672
	tac Tyr															720
	ttg Leu															768
cgc Arg	ctc Leu															816
	aat Asn	_													_	864
	aga Arg 290				_	_								_	_	912
	gcg Ala															960
	act Thr															1008
cag	atc	act	ggg	agg	aca	ttg	aac	tgg	ccc	taa						1041

Gln Ile Thr Gly Arg Thr Leu Asn Trp Pro

<210> 2 <211> 346 <212> PRT

```
<213> Homo sapiens
<400> 2
Met Leu Phe Lys Gln Gln Ala Trp Leu Arg Gln Lys Leu Leu Val Leu
                                     10
Gly Ser Leu Ala Val Gly Ser Leu Leu Tyr Leu Val Ala Arg Val Gly
                                 25
             20
Ser Leu Asp Arg Leu Gln Pro Ile Cys Pro Ile Glu Gly Arg Leu Gly
                             40
Gly Ala Arg Thr Gln Ala Glu Phe Pro Leu Arg Ala Leu Gln Phe Lys
                         55
                                             60
Arg Gly Leu Leu His Glu Phe Arg Lys Gly Asn Ala Ser Lys Glu Gln
                                         75
                     70
Val Arg Leu His Asp Leu Val Gln Gln Leu Pro Lys Ala Ile Ile Ile
                                     90
Gly Val Arg Lys Gly Gly Thr Arg Ala Leu Leu Glu Met Leu Asn Leu
                                105
His Pro Ala Val Val Lys Ala Ser Gln Glu Ile His Phe Phe Asp Asn
                            120
Asp Glu Asn Tyr Gly Lys Gly Ile Glu Trp Tyr Arg Lys Lys Met Pro
                        135
Phe Ser Tyr Pro Gln Gln Ile Thr Ile Glu Lys Ser Pro Ala Tyr Phe
                    150
                                        155
Ile Thr Glu Glu Val Pro Glu Arg Ile Tyr Lys Met Asn Ser Ser Ile
                                    170
                165
Lys Leu Leu Ile Ile Val Arg Glu Pro Thr Thr Arg Ala Ile Ser Asp
            180
                                185
Tyr Thr Gln Val Leu Glu Gly Lys Glu Arg Lys Asn Lys Thr Tyr Tyr
                            200
                                                205
Lys Phe Glu Lys Leu Ala Ile Asp Pro Asn Thr Cys Glu Val Asn Thr
                        215
                                            220
Lys Tyr Lys Ala Val Arg Thr Ser Ile Tyr Thr Lys His Leu Glu Arg
                   230
                                        235
Trp Leu Lys Tyr Phe Pro Ile Glu Gln Phe His Val Val Asp Gly Asp
               245
                                    250
Arg Leu Ile Thr Glu Pro Leu Pro Glu Leu Gln Leu Val Glu Lys Phe
           260
                               265
Leu Asn Leu Pro Pro Arg Ile Ser Gln Tyr Asn Leu Tyr Phe Asn Ala
                            280
                                                285
Thr Arg Gly Phe Tyr Cys Leu Arg Phe Asn Ile Ile Phe Asn Lys Cys
                       295
Leu Ala Gly Ser Lys Gly Arg Ile His Pro Glu Val Asp Pro Ser Val
                    310
                                        315
Ile Thr Lys Leu Arg Lys Phe Phe His Pro Phe Asn Gln Lys Phe Tyr
               325
                                    330
Gln Ile Thr Gly Arg Thr Leu Asn Trp Pro
           340
```

<211> 12

<212> DNA

<213> Artificial Sequence

```
<223> Description of Artificial Sequence: 5' Primer for PCR
<400> 3
                                                                    12
ctacaaccca tt
<210> 4
<211> 12
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: 3' Primer for PCR
                                                                    12
ttagggccag tt
<210> 5
<211> 12
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: 5' Primer for PCR
<400> 5
atgctattca aa
                                                                    12
<210> 6
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: 5' Primer for PCR (GP-226)
<400> 6
cggaactcgt gcagcaggcc acgc
                                                                    24
<210> 7
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: 5' primer for PCR (GP-224)
<400> 7
tcgaccttca atggggcaaa tggg
                                                                    24
<210> 8
<211> 25
<212> DNA
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: 5' primer for PCR (SFTex2F)
<400> 8
actggggaac cagaaaaatg aaaag
                                                                    25
<210> 9
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: 3' primer for PCR (SFTex2R)
<400> 9
                                                                    25
gtgtctccag gcacaacaca tagtg
<210> 10
<211> 55
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: 5' primer for PCR (SFTgateF2)
ggggacaagt ttgtacaaaa aagcaggctt ctttaagcgt ggcctgctgc acgag
                                                                    55
<210> 11
<211> 53
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: 3' primer for PCR (SFTgateTstop)
ggggaccact ttgtacaaga aagctgggtt tagggccagt tcaatgtcct ccc
                                                                    53
<210> 12
<211> 22
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Ig kappa signal sequence
<400> 12
Met His Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
                                      10
Val Ile Met Ser Arg Gly
             20
```

```
<210> 13
<211> 7
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: FLAG peptide
<400> 13
Asp Tyr Lys Asp Asp Lys
<210> 14
<211> 94
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: OT3 seuqnce
<400> 14
gatcatgcat tttcaagtgc agattttcag cttcctgcta atcagtgcct cagtcataat 60
gtcacgtgga gattacaagg acgacgatga caag
                                                                    94
<210> 15
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: OT20 sequence
<400> 15
cgggatccat gcattttcaa gtgcag
                                                                    26
<210> 16
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: OT21 sequence
<400> 16
ggaattcttg tcatcgtcgt ccttg
                                                                   25
```